ZyXEL

- Layer 2 Plus (Layer 3 Lite) feature set with static routing, policy-based routing, VRRP and ECMP support
- Four (4) 1GbE SPF or 10GbE SFP+ uplink flexibility
- 24 or 48 ports of Gigabit Ethernet desktop connectivity
- Provides up to 30 W per port with IEEE 802.3at PoE Plus compliance
- 1000 W or 460 W high PoE power budget
- Hot-swappable power supply and fan modules
- Internal redundant power supply design

XSG3700/ GS3700 Series

24/48-port GbE L2+ Switch

Non-stop Business Continuity for Critical Deployments

The ZyXEL XGS3700/GS3700 Series are advanced Layer 2 Plus (Layer 3 Lite) Gigabit managed switches perfect of data center access, SMB core/aggregation, and mission critical PoE applications. The Series comes in eight (8) configurations including 24- and 48-port configurations, PoE and non-PoE models, as well as 1GbE and 10GbE uplink options. The complete Series has an advanced feature set with static routing, policy-based routing, VRRP and ECMP support.

Benefits

Resiliency for non-stop business continuity

High redundancy hardware architecture:

- Internal redundant power supply
- Hot-swappable fan and power supply

Software (Layer 2 Plus/Layer 3 Lite):

- VRRP, ECMP
- STP, RSTP, MSTP, LACP

High power capacity for mission critical PoE applications

PoE features:

- IEEE 802.3at PoE Plus compliance
- 1000 W or 460 W high PoE power budget

Mission critical PoE deployments:

- IP surveillance (bank or casino)
- Uninterrupted VoIP
- High quality WLAN

Flexible and future-proof

Complete Layer 2 Plus portfolio:

- 24- and 48-port configurations
- PoE and non-PoE models
- 1GbE and 10GbE uplink options

Features:

- Static routing, policy-based routing
- IPv6 GUI, CLI, MIB

ZyXEL

XSG3700/GS3700 Series
24/48-port GbE L2+ Switch

Specifications

Model	XGS3700-24	XGS3700-24HP	XGS3700-48	XGS3700-48HP
Port Density				
100/1000 Mbps	24	-	48	-
100/1000 Mbps PoE	-	24	-	48
Gigabit SFP	-	-	-	-
10-Gigabit SFP+	4	4	4	4
Performance				
Switching capacity (Gbps)	128	128	176	176
Forwarding rate (Mpps)	95	95	131	131
Packet buffer (byte)	2M	2M	2M	2M
MAC address table	16K	16K	16K	16K
IP address table	512	512	512	512
Routing entries	512	512	512	512
Routing domains	128	128	128	128
Management				
IPv6 management	Yes	Yes	Yes	Yes
CLI/web GUI	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
iStacking (single IP management)	Yes	Yes	Yes	Yes
Out-of-bound management port	Yes	Yes	Yes	Yes
Routing/Redundancy				
Static IP routing	Yes	Yes	Yes	Yes
VRRP	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
Spanning tree (STP/MSTP/RSTP)	Yes	Yes	Yes	Yes
Quality of Service				
Priority queues	8	8	8	8
Data prioritization (SPQ/WRR/WFQ)	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Guest VLAN	Yes	Yes	Yes	Yes
IGMP snooping (v1/v2/v3)	Yes	Yes	Yes	Yes
MVR	Yes	Yes	Yes	Yes
Jumbo frame forwarding	Yes	Yes	Yes	Yes
802.1p CoS	Yes	Yes	Yes	Yes
Security				
MAC freeze/intrusion lock	Yes	Yes	Yes	Yes
802.1X authentication	Yes	Yes	Yes	Yes
TACACS+/RADIUS	Yes	Yes	Yes	Yes
ACL security filter (L2/L3/L4)	Yes	Yes	Yes	Yes
sFlow	Yes	Yes	Yes	Yes
CPU protection	Yes	Yes	Yes	Yes
Power				
Input	100 - 240 V AC, 50/60 Hz	100 - 240 V AC, 50/60 Hz	100 - 240 V AC, 50/60 Hz	100 - 240 V AC, 50/60 Hz
Max. power consumption (watt)	44.5	600	66.9	600
Total PoE power budget (watt)	-	Single PSU 460 W Dual PSU 1000 W	-	Single PSU 460 W Dual PSU 1000 W
Removable power module	Yes	Yes	Yes	Yes
Green Features				
IEEE Energy Efficient Ethernet	Yes	Yes	Yes	Yes
Environmental Specifications				
Operating temperature	0°C to 50°C/32°F to 122°F	0°C to 50°C/32°F to 122°F	0°C to 50°C/32°F to 122°F	0°C to 50°C/32°F to 122°F
Storage temperature	-40°C to 70°C/-40°F to 158°F	-40°C to 70°C/-40°F to 158°F	-40°C to 70°C/-40°F to 158°F	-40°C to 70°C/-40°F to 158°F
Operating humidity	10% to 95% (non-condensing)	10% to 95% (non-condensing)	10% to 95% (non-condensing)	10% to 95% (non-condensing)
Storage humidity	10% to 90% (Non-condensing)	10% to 90% (Non-condensing)	10% to 90% (Non-condensing)	10% to 90% (Non-condensing)
Physical Specifications				
Dimensions (WxDxH) (mm/in.)	440 x 436.8 x 40mm	440 x 436.8 x 40mm	440 x 436.8 x 40mm	440 x 436.8 x 40mm
Removable fan module	Yes	Yes	Yes	Yes
Other				
Accessory	RPS300, FAN500, RM400	RPS600-HP, FAN500, RM400	RPS300, FAN500, RM400	RPS600-HP, FAN500, RM400

ZyXEL

XSG3700/GS3700 Series

24/48-port GbE L2+ Switch

Specifications

Model	GS3700-24	GS3700-24HP	GS3700-48	GS3700-48HP
Port Density				
100/1000 Mbps	24	-	48	-
100/1000 Mbps PoE	-	24	-	48
Gigabit SFP	4	4	4	4
10-Gigabit SFP+	-	-	-	-
Performance				
Switching capacity (Gbps)	56	56	104	104
Forwarding rate (Mpps)	42	42	77	77
Packet buffer (byte)	2M	2M	2M	2M
MAC address table	16K	16K	16K	16K
IP address table	512	512	512	512
Routing entries	512	512	512	512
Routing domains	128	128	128	128
Management				
IPv6 management	Yes	Yes	Yes	Yes
CLI/web GUI	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
iStacking (single IP management)	Yes	Yes	Yes	Yes
Out-of-bound management port	Yes	Yes	Yes	Yes
Routing/Redundancy				
Static IP routing	Yes	Yes	Yes	Yes
VRRP	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
Spanning tree (STP/MSTP/RSTP)	Yes	Yes	Yes	Yes
Quality of Service				
Priority queues	8	8	8	8
Data prioritization (SPQ/WRR/WFQ)	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Guest VLAN	Yes	Yes	Yes	Yes
IGMP snooping (v1/v2/v3)	Yes	Yes	Yes	Yes
MVR	Yes	Yes	Yes	Yes
Jumbo frame forwarding	Yes	Yes	Yes	Yes
802.1p CoS	Yes	Yes	Yes	Yes
Security				
MAC freeze/intrusion lock	Yes	Yes	Yes	Yes
802.1X authentication	Yes	Yes	Yes	Yes
TACACS+/RADIUS	Yes	Yes	Yes	Yes
ACL security filter (L2/L3/L4)	Yes	Yes	Yes	Yes
sFlow	Yes	Yes	Yes	Yes
CPU protection	Yes	Yes	Yes	Yes
Power				
Input	100 - 240 V AC, 50/60 Hz	100 - 240 V AC, 50/60 Hz	100 - 240 V AC, 50/60 Hz	100 - 240 V AC, 50/60 Hz
Max. power consumption (watt)	38.4	600	58.2	600
Total PoE power budget (watt)	-	Single PSU 460 W Dual PSU 1000 W	-	Single PSU 460 W Dual PSU 1000 W
Removable power module	Yes	Yes	Yes	Yes
Green Features				
IEEE Energy Efficient Ethernet	Yes	Yes	Yes	Yes
Environmental Specifications				
Operating temperature	0°C to 50°C/32°F to 122°F	0°C to 50°C/32°F to 122°F	0°C to 50°C/32°F to 122°F	0°C to 50°C/32°F to 122°F
Storage temperature	-40°C to 70°C/-40°F to 158°F	-40°C to 70°C/-40°F to 158°F	-40°C to 70°C/-40°F to 158°F	-40°C to 70°C/-40°F to 158°F
Operating humidity	10% to 95% (non-condensing)	10% to 95% (non-condensing)	10% to 95% (non-condensing)	10% to 95% (non-condensing)
Storage humidity	10% to 90% (Non-condensing)	10% to 90% (Non-condensing)	10% to 90% (Non-condensing)	10% to 90% (Non-condensing)
Physical Specifications				
Dimensions (WxDxH) (mm/in.)	440 x 436.8 x 40mm	440 x 436.8 x 40mm	440 x 436.8 x 40mm	440 x 436.8 x 40mm
Removable fan module	Yes	Yes	Yes	Yes
Other				
Accessory	RPS300, FAN500, RM400	RPS600-HP, FAN500, RM400	RPS300, FAN500, RM400	RPS600-HP, FAN500, RM400

XSG3700/GS3700 Series
24/48-port GbE L2+ Switch

Features

Standard Compliance

- IEEE 802.3 10Base-T Ethernet
- IEEE 802.3u 100Base-Tx Ethernet
- IEEE 802.3ab 1000Base-T Ethernet
- IEEE 802.3z 1000 Base-X
- IEEE 802.3aq 10G Base-X
- IEEE 802.3at PoE plus
- IEEE 802.3az EEE
- IEEE 802.3x Flow Control
- IEEE 802.3ad LACP Aggregation
- IEEE 802.3ah OAM
- IEEE 802.1ag CFM
- IEEE 802.1AB LLDP / LLDP-MED
- IEEE 802.1D Spanning Tree Protocol (STP)
- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
- IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
- IEEE 802.1Q VLAN Tagging
- IEEE 802.1p Class of Service (CoS) Prioritization
- IEEE 802.1X Port Authentication

Resilience and Availability

- IEEE 802.1D Spanning Tree Protocol (STP)
- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
- IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
- IEEE 802.3ad LACP (max # trunks/links per trunk): 12/eight on 24-port model or 24/eight on 48-port model
- VRRP
- Loop guard
- ErrDisable recovery
- MRSTP (ZyXEL proprietary)
- Dual configuration files
- Dual flash images
- Dual redundant power supply support
- Hot-swappable fan module

Traffic Control

- 802.1Q Static VLANs / dynamic VLANs: 1K/4K
- Port-based VLAN
- protocol-based VLAN
- Private VLAN
- IP subnet based VLAN
- VLAN trunking
- VLAN translation
- VLAN ingress filtering
- 802.1ad VLAN stacking (Q-in-Q)
- LACP algorithm of source/destination IP
- GVRP
- selected Q-in-Q
- L2PT

Security

- 802.1X
- Port Security
- MAC authentication
- Layer 2 MAC filtering
- Layer 3 IP filtering
- Layer 4 TCP/UDP socket filtering
- BPDU Transparency
- Static MAC forwarding
- Multiple RADIUS servers
- Multiple TACACS+ servers
- 802.1x VLAN and 802.1p assignment by RADIUS
- login authentication by RADIUS
- login authentication by TACACS+
- TACACS+ accounting
- RADIUS accounting
- Authorization on RADIUS
- Authorization on TACACS+
- Authorization on console
- SSH v1/v2
- SSL
- Intrusion Lock
- MAC Freeze
- DHCP snooping
- ARP Inspection
- ARP Freeze
- Static ARP
- Static IP/MAC binding
- Policy-based security filtering
- Port Isolation
- IP Source Guard
- Limit number of MAC per VLAN
- MAC Search
- Guest-VLAN
- ACL Packet Filtering (IPv4/Ipv6)
- PPPoE + relay agent
- PPPoE option82
- PPPoE-IA
- CPU protection
- MAC pinning
- Interface related trap can be enable/disable by port

Quality of Service (QoS)

- No. of hardware queues per port: 8
- 802.1p Queuing method: SPQ/WRR/WFQ
- Storm Control (Broadcast, Multicast, Unknown Unicast storm control)
- Rate Limiting, port based (ingress/egress): */64kbps
- Rate Limiting, per IP/TCP/UDP per port
- Rate Limiting, policy based
- Policy-based Bandwidth control granularity
- Ingress CIR for bandwidth control
- 802.3x flow control
- Port-based egress Traffic Shaping CIR/PIR supported
- Policy based Prioritization
- TRTCM(Two rate three color marking)
- 802.1p Class of Service (SPQ, WFQ, SPQ/WFQ combination capable)
- DiffServ (DSCP)

Layer 2 Multicast

- L2 Multicast (group)
- IGMP Snooping (v1,v2,v3)
- IGMP Snooping Fast Leave
- Configurable IGMP snooping timer and priority
- IGMP Snooping Statistics
- IGMP Throttling

XSG3700/GS3700 Series
24/48-port GbE L2+ Switch

- MVR support
- IGMP Filtering
- IGMP snooping Immediate Leave
- IGMP proxy mode & snooping mode selection
- IPv6 MLD snooping proxy

Routing

- Static Route
- Policy route
- IP port moving
- Multiple default route

Manageability

- SNMP v1,v2c, v3
- SNMP trap group
- RMON (1,2,3,9)
- ICMP echo/echo reply
- Syslog
- IEEE 802.3ah OAM (Link Discovery, Loopback)
- IEEE 802.1ag CFM
- IEEE 802.1AB LLDP
- IEEE 802.1AB LLDP-MED

IPv6 Management

- IPv6 over Ethernet (RFC 2464)
- IPv6 Addressing Architecture (RFC 4291)
- Dual stack (RFC4213)
- ICMPv6 (RFC4443)
- Path MTU (RFC 1981)
- Minimum Path MTU size of 1280 (RFC 5095)
- Encapsulation for Maximum PMTU of 1500
- Neighbor Discovery (RFC4861)
- DHCPv6 Relay

Device Management

- iStacking
- Web Interface
- Management through console, telnet, SNMP
- Firmware upgrade by FTP
- Remote firmware upgrade by FTP/Web
- Configuration saving and retrieving
- Multiple login supported
- Configure Clone
- Multilevel CLI
- CLI (Cisco like)
- DHCP Servers
- DHCP relay per VLAN
- DHCP Client
- DHCP option 82
- DHCP option 82 profile
- Daylight Saving
- NTP
- Port mirroring
- Port mirroring per IP/TCP/UDP
- Policy-based port mirroring
- RJ 45 Out-of-band Management Port
- RS-232 Out-of-band Console Port
- sFlow
- Remote port monitoring

MIB

- ZyXEL new private MIB
- RFC 1066 TCP/IP-based MIB
- RFC 1213, 1157 SNMPv2c/v3 MIB
- RFC 1493 bridge MIB
- RFC 1643 Ethernet MIB
- RFC 1757 RMON group 1,2,3,9
- RFC 2011, 2012, 2013 SNMPv2 MIB
- RFC 2233 SMIv2 MIB
- RFC 2358 Ethernet-like MIB
- RFC 2674 bridge MIB extension
- RFC 2819,2925 Remote Management MIB
- RFC 3621 Power Ethernet MIB
- RFC 4022 Management Information Base for Transmission Control Protocol
- RFC 4113 Management Information Base for User Datagram Protocol
- RFC 4292 IP Forwarding Table MIB
- RFC 4293 Management Information Base (MIB) for IP

Safety

- LVD
- BSMI

EMC

- FCC Part15 (Class A)
- CE EMC (Class A)
- BSMI-ENC

RoHS

- Level A